



## Launch Mission Execution Forecast

**Vehicle:** Falcon 9 Dragon CRS-13

**Issued:** 14 Dec 2017/0830 EST (1330 UTC)

**Valid:** 15 Dec 2017/1036 EST (1536 UTC)

**Synoptic Discussion:** Winds will shift to the southwest today and cloud cover will begin to push into the area at the low levels. A strong sub-tropical ridge is currently entrenched over Central Florida and is preventing a weak surface front located through the central US from pushing into our area. This ridge will weaken late on Friday and into Saturday allowing the front to push south well after the launch window. Cloud cover will likely be present on Friday as southwesterly winds push moisture into the area causing Thick Cloud to be the primary concern. Maximum upper-level winds will be from the west at 90 knots near 35,000 feet.

<u>Clouds</u>	<u>Coverage</u>	<u>Bases (feet)</u>	<u>Tops (feet)</u>
Stratocumulus	Scattered	3,000	6,000

<b>Weather:</b> None	<b>Solar Activity:</b> Low
<b>Surface Visibility:</b> 7 miles	<b>Pressure:</b> 30.09 inHg
<b>Liftoff Winds (MPH):</b> 220° @ 10 P15 (200')	<b>RH:</b> 70%
<b>Temperature:</b> 67°F	

**Launch day probability of violating launch weather constraints:** **10%**  
**Primary concern(s):** Thick Cloud Rule

**Sunrise:** 15/0707 EST

**Sunset:** 15/1728 EST

**Moonrise:** 15/0440 EST

**Moonset:** 15/1558 EST

**Illumination:** 6%

**Next forecast will be issued:** As Required